IN THE CLAIMS

Please amend the claims to read as follows. This listing of claims is to replace all prior versions of the claims.

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- 1. [AMENDED] A method for detecting a de-myelinating disease multiple sclerosis, Creutzfeld-Jakob disease, or spongiform encephalopathy in mammals which comprises testing a biological sample obtained from the mammal for IgA antibodies which bind to an Acinetobacter antigen species.
- 2. A method according to claim 1, in which the *Acinetobacter* is one which presents to the mammal an antigen which exhibits molecular mimicry with the myelin of the mammal.
- 3. [AMENDED] A method according to claim 1, in which the antibodies are indicative of prior infection by exposure to Acinetobacter calcoaceticus.

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- 4. [AMENDED] A method according to claim 1, in which the antibodies tested for are antibodies which bind to an epitope antigen present in or derived from the Acinetobacter species or to a prepared peptide sequence corresponding thereto.
- 5. [PREVIOUSLY-AMENDED] A method according to claim 1, in which the disease tested for is bovine spongiform encephalopathy.
- 6. [PREVIOUSLY-AMENDED] A method according to claim 1, in which the disease tested for is multiple sclerosis in humans.
- 7. [PREVIOUSLY-AMENDED] A method according to claim 1, in which the disease tested for is Creutzfeldt-Jacob disease in humans.
- 8. A method according to claim 1, in which antibodies are assayed and a positive result is indicated by levels of antibodies at least about two standard deviations above that of control samples.

- 9. [TWICE-AMENDED] A test kit for use with a method according to claim 1 detecting multiple sclerosis, Creutzfeld-Jakob disease, or spongiform encephalopathy in mammals, the test kit comprising a test antigen, and wherein in which the test antigen is the whole Acinetobacter organism or at least one prepared peptide sequence corresponding to an Acinetobacter epitope antigen, said the test kit including a secondary antibody against the human, bovine, or other mammalian IgA.
- 10. **[TWICE-AMENDED]** A method according to claim 1, in which the antibodies tested for are antibodies which bind to a peptide sequence that has sufficient conformational similarity to an *Acinetobacter* epitope antigen such that the antibodies tested for are cross-reactive with the *Acinetobacter* epitope antigen.
- 11. [TWICE-AMENDED] A method according to claim 10, in which the epitope is antigen contains the peptide sequence ISRFAWGEV (SEQ. ID. NO: 2).
- 12. [TWICE-AMENDED] A method according to claim 10, in which the epitope antigen contains the peptide sequence RFSAWGAE (SEQ. ID. NO: 1).
- 13. [TWICE-AMENDED] A test kit for use with a method according to claim 10, in which the detecting multiple sclerosis, Creutzfeld-Jakob disease, or spongiform encephalopathy in mammals, the test kit comprising a test antigen, and wherein the test antigen is a peptide sequence which is conformationally sufficiently similar to an Acinetobacter epitope antigen to bind to antibodies that bind to the Acinetobacter epitope antigen, said the test kit including a secondary antibody against human, bovine, or other mammalian IgA.
- 14. [PREVIOUSLY-AMENDED] A test kit according to claim 13, comprising a peptide having the sequence RFSAWGAE (SEQ. ID. NO: 1) or ISRFAWGEV (SEQ. ID. NO: 2).

- 15. A test kit according to claim 9, in which the secondary antibody is a rabbit antihuman IgA or rabbit anti-bovine IgA.
- 16. [NEW] A method according to Claim 2, in which the antigen is a peptide containing the sequence ISRFAWGEV (SEQ. ID. NO: 2).
- 17. **[NEW]** A method according to claim 1, in which antibodies are assayed and a positive result is indicated by levels of antibodies significantly higher than that of control samples.

18. [NEW] A test kit for detecting multiple sclerosis, Creutzfeld-Jakob disease, or spongiform encephalopathy in mammals, the test kit comprising:

a test antigen specific for antibodies to an *Acinetobacter* species, wherein the *Acinetobacter* species contains an antigen which exhibits molecular mimicry with myelin of the mammal; and

an antibody that specifically reacts with IgA components of the antibodies to an *Acinetobacter* species.